

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Selim Shlomo Rakib CONFIRMATION NO.: 2421
SERIAL NO.: 09/898,728
FILING DATE: 07/03/2001
TITLE: REMOTE CONTROL FOR WIRELESS CONTROL OF SYSTEM
INCLUDING HOME GATEWAY AND HEADEND, EITHER OR
BOTH OF WHICH HAVE DIGITAL VIDEO RECORDING
FUNCTIONALITY
EXAMINER: Andramuno, Franklin S.
ART UNIT: 2623

Mail Stop Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPEAL BRIEF

Dear Sir:

This paper is in support of a Notice to Appeal filed June 23, 2008, of the Office Action dated February 21, 2008, to the Board of Patent Appeals and Interferences.

TABLE OF CONTENTS

I.	Real Party in Interest	3
II.	Related Appeals and Interferences	4
III.	Status of Claims	5
IV.	Status of Amendments	6
V.	Summary of Claimed Subject Matter	7
VI.	Grounds of Rejection to be Reviewed on Appeal	17
VII.	Argument	18
	Rejection of Claims 1-9 Under 35 U.S.C. 103	18
VIII.	Claims Appendix	22
IX.	Evidence Appendix	28
X.	Related Proceedings Appendix	29

REAL PARTY IN INTEREST

Motorola, Inc., successor in interest to the assignee of record, Terayon Communication
Systems, Inc.

RELATED APPEALS AND INTERFERENCES

None.

STATUS OF CLAIMS

Claims 1-9 have been finally rejected and are on appeal.

STATUS OF AMENDMENTS

All amendments have been entered. No Amendment After Final has been submitted.

SUMMARY OF CLAIMED SUBJECT MATTER

The invention relates to a communications system for providing communications services to customer premises that include a communications gateway. In a representative embodiment, the communications gateway is coupled via one or more transmission mediums to a headend circuit that provides data to the customer premises. At the customer premises, one or more peripheral devices are coupled to the gateway via one or more networks (e.g., LANs) or network segments. A wireless remote control means is provided at the customer premises coupled by wireless digital data communication circuitry to the gateway (or to the gateway through a peripheral device), for issuing commands to the headend circuit through the gateway and one or more transmission mediums to provide data to said one or more peripherals through the one or more transmission mediums and the gateway.

The following correspondence between the elements of claim 1 and the specification is provided for convenience:

ELEMENT	FIGURE(S)	SPECIFICATION
1. A system comprising: one or more transmission mediums for carrying at least upstream and downstream digital data traffic;	FIG. 1, #14	Page 6, line 13.
a headend circuit coupled to all said transmission mediums and containing or coupled to one or more server computers and/or other circuits to provide at least digital data services to a plurality of customers;	FIG. 1, #12	Page 7, line 15.
one or more local area networks and/or dedicated LAN segments or data paths at each customer premises;	FIG. 1, #28	Page 6, line 22.

one or more peripheral devices at each customer premises coupled to said one or more local area networks and/or dedicated LAN segments or dedicated data paths, said one or more peripheral devices including a non-television component;	FIG. 1: 34, 38, 40, 42, 44, 46, 48	Page 9, line 24, page 10, line 12.
a plurality of gateway means at customer premises locations and coupled to all said transmission mediums and coupled to said one or more local area networks, for receiving, demodulating and detecting digital data transmitted to one or more of said peripherals from said headend circuit and to packetize and route said data to the appropriate peripheral device via said one or more local area networks or one or more ports directly connected by dedicated lines or LAN segments to one or more peripherals, and for managing traffic and bandwidth and rate shaping if necessary to match the data rate of data to be transmitted over a data path to the available bandwidth on that data path; and	FIG. 1: 10, 21	Page 6, line 13; page 8, line 17-page 11, line 27.

a remote control means at one or more customer premises and, at each premises, coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said headend circuit through said gateway and one or more transmission mediums to provide data to said one or more peripherals through said one or more transmission mediums and said gateway.	FIG. 1, #30	Page 6, line 12, page 9, line 24, page 12, line 28.
--	-------------	---

The following correspondence between the elements of claim 3 and the specification is provided for convenience:

ELEMENT	FIGURE(S)	SPECIFICATION
3. A system comprising: one or more transmission mediums for carrying at least upstream and downstream digital data traffic;	FIG. 2, #14	Page 14, line 3.
a headend circuit coupled to all said transmission mediums and containing or coupled to one or more server computers and/or other circuits to provide at least digital data services to a plurality of customers, and including rate shaping circuitry to alter the data rate of data transmitted on or received from said transmission mediums;	FIG. 2, #74	Page 14, line 3.
one or more local area networks or digital data buses at each customer premises;	FIG. 2, #86	Page 14, line 3.
one or more peripheral devices including at least one non- television component at each customer premises coupled to said one or more local area networks or buses;	FIG. 2: 80, 82, 88	Page 14, line 3.

at least one cable modem at each customer premises location, said cable modem coupled to all said transmission mediums and coupled to said one or more peripherals via said local area networks or buses; and	FIG. 2, #78	Page 14, line 3.
a remote control coupled to said headend through said cable modem or coupled to said headend through one or more of said peripherals coupled to said cable modem for issuing wireless commands that get routed by said cable modem to said headend to invoke services provided by said headend circuit.	FIG. 2, #70	Page 14, line 3.

The following correspondence between the elements of claim 5 and the specification is provided for convenience:

ELEMENT	FIGURE(S)	SPECIFICATION
5. A system comprising: a satellite dish for receiving downstream digital video data traffic at each customer premises location;	FIG. 3, #104	Page 15, line 12.
a conventional telephone line at each customer premises location and routed to a central office headend, for carrying low speed internet protocol digital data traffic both upstream and downstream;	FIG. 3, #130	Page 15, line 12.

a digital video headend circuit coupled to one or more video and/or other servers to transmit digital video and other data implementing one or more services to one or more satellites for retransmission to the satellite dishes at each customer premises location;	FIG. 3, #108	Page 15, line 12.
a central office headend server coupled to each of said telephone lines for implementing the bidirectional transmission of internet protocol data packets to and from said customer premises and servers on the internet; one or more local area networks at each customer premises;	FIG. 3, #134	Page 21, line 13.
one or more peripheral devices including at least one non-television component at each customer premises coupled to said one or more local area networks;	FIG. 3, #128	Page 15, line 12.
a plurality of gateways, at least one at each customer premises locations, each gateway coupled to a satellite dish and to a conventional telephone line and coupled to said one or more local area networks and functioning to extract digital video and other data transmitted to one or more of said peripherals from said digital video headend and/or said central office headend server and to route said data to the appropriate peripheral device via said one or more local area networks; and	FIG. 3, #102	Page 15, line 12.

a remote control means at each customer premises coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said digital video headend circuit and to said central office headend server through said gateway and one or more conventional telephone lines to provide data to said one or more peripherals through said satellite dish and/or a conventional telephone line and said gateway and local area network.	FIG. 3, #100	Page 15, line 12.
--	--------------	-------------------

The following correspondence between the elements of claim 6 and the specification is provided for convenience:

ELEMENT	FIGURE(S)	SPECIFICATION
6. A system comprising: a satellite dish for receiving downstream digital video data traffic at each customer premises location;	FIG. 4, #104	Page 22, line 4.
a cable television hybrid fiber coaxial cable network (hereafter HFC network) for carrying analog television broadcast signals and high speed internet protocol digital data traffic both upstream and downstream;	FIG. 4, #144	Page 22, line 18.
a digital video headend circuit coupled to one or more video and/or other servers to transmit digital video and other data implementing one or more services to one or more satellites for retransmission to the satellite dishes at each customer premises location;	FIG. 4, #108	Page 22, line 4.

a cable television headend circuit coupled to each of servers for implementing the bidirectional transmission of data packets to and from said customer premises and servers on the internet and for implementing bidirectional transmission of data packets from said servers to said customer premises; implementing other services; one or more local area networks at each customer premises;	FIG. 4, #74	Page 22, line 18.
one or more peripheral devices including at least one non-television component at each customer premises coupled to said one or more local area networks;	FIG. 4: 46, 80, 82, 88	Page 22, line 4.
a plurality of gateways, at least one at each customer premises locations, each gateway coupled to a satellite dish and having a cable modem included therein to couple said gateway to said HFC network and coupled to said one or more local area networks and functioning to extract digital video and other data transmitted to one or more of said peripherals from said digital video headend circuit and/or said cable television headend circuit and to route said data in the appropriate format to the appropriate peripheral device via said one or more local area networks; and	FIG. 4, #10	Page 22, line 4.

a remote control means at each customer premises coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said cable television headend circuit through said gateway and said HFC network to provide data to said one or more peripherals through said HFC network and said gateway and local area network.	FIG. 4, #70	Page 22, line 18.
---	-------------	-------------------

The following correspondence between the elements of claim 8 and the specification is provided for convenience:

ELEMENT	FIGURE(S)	SPECIFICATION
8. A system comprising: a plurality of satellite dishes for receiving downstream digital video data traffic, each satellite dish at a customer premises;	FIG. 4, #104	Page 22, line 4.
a digital video headend circuit coupled to one or more video servers for transmitting digital video broadcast data to said plurality of satellite dishes via an uplink, a satellite and a downlink;	FIG. 4, #108	Page 22, line 4.
a plurality of conventional telephone lines, each routed to a customer premises and each for carrying low speed internet protocol digital data traffic both upstream and downstream;	FIG. 4, #142	Page 22, line 18.
a plurality of gateway means, each at a customer premises and coupled to at least one of said telephone lines and at least one of said satellite dishes;	FIG 4, #10	Page 22, line 4.

a central office server coupled to the internet and to said conventional telephone lines to provide bidirectional internet protocol data transfers between each said gateway and servers on the internet via a conventional telephone line; one or more conventional analog televisions at each customer premises coupled to said gateway via audio and video lines;	FIG. 4, #90	Page 22, line 28.
one or more non-television components at each customer premises coupled to said gateway by way of a local area network;	FIG. 4: 46, 88	Page 22, line 4.
a remote control at each customer premises, and coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for at least sending data and commands to said central office internet server through said gateway and a conventional telephone line to cause bidirectional data transfers between said gateway and said internet server;	FIG. 4, #70	Page 22, line 18.

<p>each said gateway means for receiving compressed digital video broadcast data and for wireless receiving commands from said remote control, and for coordinating use of said remote control and said conventional analog television like a computer keyboard and display, respectively, for sending and receiving internet protocol data over a conventional telephone line so as to enable use of said television and remote control and gateway like a personal computer to display web pages and/or e-mail, and for routing said compressed digital video data to a hard disk for recording or to a decompression and conversion circuit for processing for display on said television(s) or both.</p>	<p>FIG. 4, #10</p>	<p>Page 22, line 4.</p>
--	--------------------	-------------------------

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether claims 1-9 are unpatentable under 35 U.S.C. 103 over U.S. Pat. Pub. No. 2005/0028208 (Ellis et al; hereinafter, "Ellis") in view of U.S. Pat. 6,4376,836 (Huang et al; hereinafter "Huang").

ARGUMENT

Rejection of Claims 1-9 Under 35 U.S.C. 103

The system of Ellis is best understood in terms of synchronization between separate instances of an electronic program guide (EPG), a local instance present on user television equipment and a remote instance present on a remote program guide access device. Note, for example, paragraph [0099]:

In an illustrative system configuration using Internet service system 61, remote program guide access device 24 is a user's personal computer at work, Internet service system 61 is a web server at a cable system headend, and user television equipment 22 at the user's home contains a set-top box on which the user's program guide is implemented. Using this arrangement, the user may access features of the program guide such as setting reminders or notifications, viewing listings, program recording, setting favorites, parental control, sending messages, polling for status, or any other suitable function. For example, if a child in the user's home desires permission to watch a parentally controlled program while the user is at work, the user may access a suitable web page provided by Internet service system 61 that allows the user to enter a password and adjust the program guide parental control settings. The changed settings allowing the child access to the desired program are then automatically transferred from Internet service system 61 to user television equipment 22, while the user is still at work.

Two classes of embodiments of the Ellis system may be distinguished. In one class of embodiments (Fig. 2a), a remote program guide access device 24 is connected by a "remote access link" 19 to user television equipment 22. Because of this direct (though remote) connection, synchronization between the local EPG instance present on user television equipment 22 and the remote EPG instance present on the remote program guide access device 24 is also direct.

In another class of embodiment (Fig. 2b), the remote program guide access device 24 is connected by a remote access link 19 to a television distribution facility 16 such as a cable system headend. Because of the lack of direct connection, synchronization between the local EPG instance present on user television equipment 22 and the remote EPG instance present on the remote program guide access device 24 is also indirect and is mediated by the television

distribution facility 16. A user might, for example, send a message to be displayed or played by the user television equipment 22 (Paragraph [0018]). In the case of the second class of embodiments, the message would be relayed via the television distribution facility 16.

With this background, the differences between Ellis and the claimed invention may be readily appreciated. Considering representative claim 1, for example, Ellis does not teach or suggest “a remote control means *at one or more customer premises* ... coupled by *wireless* digital data communication circuitry *to said gateway*.” In Ellis, the remote program guide access device is located *remotely*. There is no description of it being located at the customer premises, nor would there be any need of it to be located at the customer premises.

Furthermore, there is no teaching or suggestion of the remote program guide access device “issuing commands to the headend circuit *through said gateway* [located at the customer premises] and one or more transmission mediums to provide data to said one or more peripherals through said one or more transmission mediums and said gateway.” Rather, in the second class of embodiments, the remote program guide access device bypasses the customer premises, communicating instead with the television distribution facility 16, which in turn communicates with customer premises equipment to perform the kind of synchronization previously mentioned.

Huang in no way remedies the foregoing deficiencies of Ellis with respect to claim 1. Huang teaches realizing a remote control in the form of a PDA or the like. However, the remote control of Huang is not analogous to the remote program guide access device of Ellis. Rather, the remote control of Huang is analogous to the remote control 40 of Ellis (Fig. 3), which is located at the customer premises and which (unlike the remote program guide access device) fits the description normally associated with a consumer electronics remote control.

Hence, claim 1 patentably defines over the combination of Ellis and Huang.

Similar features to those discussed in relation to claim 1 are found in each of independent claims 3, 5, 6 and 8 and cause these claims to also patentably define over the cited references.

In claim 3, a remote control is coupled through a cable modem for issuing wireless commands that get routed by the cable modem to a headend circuit to invoke services provided by the same. In the case of Ellis Fig. 2a (direct connection), there is no need to route commands to the headend in order to achieve synchronization between the separate instances of the EPG, the local instance present on user television equipment and the remote instance present on the remote program guide access device. In the case of Ellis Fig. 2b (indirect connection), commands are not routed by the user television equipment 22 (in the manner of a gateway, for sake of argument) to the headend as claimed. Rather, the remote program guide access device bypasses the customer premises, communicating instead with the television distribution facility 16, which in turn communicates with customer premises equipment to perform the kind of synchronization previously mentioned. Again, Huang does nothing to remedy these basic deficiencies of Ellis.

In claim 5, a remote control is coupled through a gateway for issuing commands through the gateway to a headend circuit and to a central office headend server to command data to be provided to one or more peripherals. In the case of Ellis Fig. 2a (direct connection), there is no need to route commands to the headend in order to achieve synchronization between the separate instances of the EPG, the local instance present on user television equipment and the remote instance present on the remote program guide access device. In the case of Ellis Fig. 2b (indirect connection), commands are not routed by the user television equipment 22 (in the manner of a gateway, for sake of argument) to the headend as claimed. Rather, the remote program guide access device bypasses the customer premises, communicating instead with the television distribution facility 16, which in turn communicates with customer premises equipment to perform the kind of synchronization previously mentioned. Again, Huang does nothing to remedy these basic deficiencies of Ellis.

In claim 5, a remote control is coupled through a gateway for issuing commands through the gateway to a headend circuit and to a central office headend server to command data to be provided to one or more peripherals. In the case of Ellis Fig. 2a (direct connection), there is no need to route commands to the headend in order to achieve synchronization between the separate instances of the EPG, the local instance present on user television equipment and the

remote instance present on the remote program guide access device. In the case of Ellis Fig. 2b (indirect connection), commands are not routed by the user television equipment 22 (in the manner of a gateway, for sake of argument) to the headend as claimed. Rather, the remote program guide access device bypasses the customer premises, communicating instead with the television distribution facility 16, which in turn communicates with customer premises equipment to perform the kind of synchronization previously mentioned. Again, Huang does nothing to remedy these basic deficiencies of Ellis.

Finally, in claim 8, a remote control is coupled through a gateway for sending commands through the gateway to a central office internet server to cause bidirectional data to be exchanged between the central office internet service and the gateway. In the case of Ellis Fig. 2a (direct connection), there is no need to route commands to the central office internet server in order to achieve synchronization between the separate instances of the EPG, the local instance present on user television equipment and the remote instance present on the remote program guide access device. In the case of Ellis Fig. 2b (indirect connection), commands are not routed by the user television equipment 22 (in the manner of a gateway, for sake of argument) to the central office internet server as claimed. Rather, the remote program guide access device bypasses the customer premises, communicating instead with the television distribution facility 16, which in turn communicates with customer premises equipment to perform the kind of synchronization previously mentioned. Again, Huang does nothing to remedy these basic deficiencies of Ellis.

Dependent claims 2, 4, 7 and 9 depend from base claims 1, 3, 6 and 8, respectively. Huang fails to remedy the above-mentioned shortcomings of Ellis with respect to these claims. Accordingly, these claims, which by definition include the limitations of their respective independent claims, are patentable over the combination of references.

CLAIMS APPENDIX

1. A system comprising:

one or more transmission mediums for carrying at least upstream and downstream digital data traffic;

a headend circuit coupled to all said transmission mediums and containing or coupled to one or more server computers and/or other circuits to provide at least digital data services to a plurality of customers;

one or more local area networks and/or dedicated LAN segments or data paths at each customer premises;

one or more peripheral devices at each customer premises coupled to said one or more local area networks and/or dedicated LAN segments or dedicated data paths, said one or more peripheral devices including a non-television component;

a plurality of gateway means at customer premises locations and coupled to all said transmission mediums and coupled to said one or more local area networks, for receiving, demodulating and detecting digital data transmitted to one or more of said peripherals from said headend circuit and to packetize and route said data to the appropriate peripheral device via said one or more local area networks or one or more ports directly connected by dedicated lines or LAN segments to one or more peripherals, and for managing traffic and bandwidth and rate shaping if necessary to match the data rate of data to be transmitted over a data path to the available bandwidth on that data path; and

a remote control means at one or more customer premises and, at each premises, coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said headend circuit through said gateway and one or more transmission mediums to provide data to said one or more peripherals through said one or more transmission mediums and said gateway.

2. The apparatus of claim 1 wherein said wireless digital data communication circuitry is a digital data transceiver and wherein said remote control means includes a display and audio data playing circuitry and further includes means for decompressing compressed video and/or audio data received by said transceiver and displaying the decompressed video image data and for

playing decompressed audio data, and further comprising means for receiving and displaying internet protocol packet data defining web pages, graphics, e-mail and other data that is received from the internet.

3. A system comprising:

one or more transmission mediums for carrying at least upstream and downstream digital data traffic;

a headend circuit coupled to all said transmission mediums and containing or coupled to one or more server computers and/or other circuits to provide at least digital data services to a plurality of customers, and including rate shaping circuitry to alter the data rate of data transmitted on or received from said transmission mediums;

one or more local area networks or digital data buses at each customer premises;

one or more peripheral devices including at least one non-television component at each customer premises coupled to said one or more local area networks or buses;

at least one cable modem at each customer premises location, said cable modem coupled to all said transmission mediums and coupled to said one or more peripherals via said local area networks or buses; and

a remote control coupled to said headend through said cable modem or coupled to said headend through one or more of said peripherals coupled to said cable modem for issuing wireless commands that get routed by said cable modem to said headend to invoke services provided by said headend circuit.

4. The apparatus of claim 3 wherein said cable modem includes rate shaping circuitry to modify the data rate of data transmitted on said one or more local area networks, and wherein said remote control each includes a transceiver for receiving infrared or radio frequency transmissions of digital internet protocol packet data and/or compressed video and/or audio data and decompression/conversion circuitry for decompressing any compressed video and/or audio data and converting said decompressed video and/or audio data and internet protocol packet data to signals or data that can be displayed and/or played and display circuitry for displaying said converted internet protocol packet data and/or converted decompressed video data and includes a speaker and/or headphone jack for playing and/or outputting analog sound data.

5. A system comprising:

a satellite dish for receiving downstream digital video data traffic at each customer premises location;

a conventional telephone line at each customer premises location and routed to a central office headend, for carrying low speed internet protocol digital data traffic both upstream and downstream;

a digital video headend circuit coupled to one or more video and/or other servers to transmit digital video and other data implementing one or more services to one or more satellites for retransmission to the satellite dishes at each customer premises location;

a central office headend server coupled to each of said telephone lines for implementing the bidirectional transmission of internet protocol data packets to and from said customer premises and servers on the internet;

one or more local area networks at each customer premises;

one or more peripheral devices including at least one non-television component at each customer premises coupled to said one or more local area networks;

a plurality of gateways, at least one at each customer premises locations, each gateway coupled to a satellite dish and to a conventional telephone line and coupled to said one or more local area networks and functioning to extract digital video and other data transmitted to one or more of said peripherals from said digital video headend and/or said central office headend server and to route said data to the appropriate peripheral device via said one or more local area networks; and

a remote control means at each customer premises coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said digital video headend circuit and to said central office headend server through said gateway and one or more conventional telephone lines to provide data to said one or more peripherals through said satellite dish and/or a conventional telephone line and said gateway and local area network.

6. A system comprising:

a satellite dish for receiving downstream digital video data traffic at each customer premises location;

a cable television hybrid fiber coaxial cable network (hereafter HFC network) for carrying analog television broadcast signals and high speed internet protocol digital data traffic both upstream and downstream;

a digital video headend circuit coupled to one or more video and/or other servers to transmit digital video and other data implementing one or more services to one or more satellites for retransmission to the satellite dishes at each customer premises location;

a cable television headend circuit coupled to each of servers for implementing the bidirectional transmission of data packets to and from said customer premises and servers on the internet and for implementing bidirectional transmission of data packets from said servers to said customer premises implementing other services;

one or more local area networks at each customer premises;

one or more peripheral devices including at least one non-television component at each customer premises coupled to said one or more local area networks;

a plurality of gateways, at least one at each customer premises locations, each gateway coupled to a satellite dish and having a cable modem included therein to couple said gateway to said HFC network and coupled to said one or more local area networks and functioning to extract digital video and other data transmitted to one or more of said peripherals from said digital video headend circuit and/or said cable television headend circuit and to route said data in the appropriate format to the appropriate peripheral device via said one or more local area networks; and

a remote control means at each customer premises coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for issuing commands to said cable television headend circuit through said gateway and said HFC network to provide data to said one or more peripherals through said HFC network and said gateway and local area network.

7. The system of figure 6 wherein said gateway has a conventional modem therein which interfaces said gateway to said digital video headend circuit through said remote control means

and a telephone line circuit of the public service telephone network for purposes of ordering pay-per-view events for viewing on one or more of said peripherals.

8. A system comprising:

 a plurality of satellite dishes for receiving downstream digital video data traffic, each satellite dish at a customer premises;

 a digital video headend circuit coupled to one or more video servers for transmitting digital video broadcast data to said plurality of satellite dishes via an uplink, a satellite and a downlink;

 a plurality of conventional telephone lines, each routed to a customer premises and each for carrying low speed internet protocol digital data traffic both upstream and downstream;

 a plurality of gateway means, each at a customer premises and coupled to at least one of said telephone lines and at least one of said satellite dishes;

 a central office server coupled to the internet and to said conventional telephone lines to provide bidirectional internet protocol data transfers between each said gateway and servers on the internet via a conventional telephone line;

 one or more conventional analog televisions at each customer premises coupled to said gateway via audio and video lines;

 one or more non-television components at each customer premises coupled to said gateway by way of a local area network;

 a remote control at each customer premises, and coupled by wireless digital data communication circuitry to said gateway or to said gateway through a peripheral device, for at least sending data and commands to said central office internet server through said gateway and a conventional telephone line to cause bidirectional data transfers between said gateway and said internet server;

 each said gateway means for receiving compressed digital video broadcast data and for wireless receiving commands from said remote control, and for coordinating use of said remote control and said conventional analog television like a computer keyboard and display, respectively, for sending and receiving internet protocol data over a conventional telephone line so as to enable use of said television and remote control and gateway like a personal computer to display web pages and/or e-mail, and for routing said compressed digital video data to a hard

disk for recording or to a decompression and conversion circuit for processing for display on said television(s) or both.

9. The apparatus of claim 8 wherein said remote control includes a display and a transceiver to receive compressed digital video broadcast data and decompression and conversion circuitry to buffer frames of said data and decompress said compressed digital video data and convert it to YUV or other format uncompressed video data that can be displayed on said display.

EVIDENCE APPENDIX

None.

RELATED PROCEEDINGS APPENDIX

None.

Please charge any additional required fee or credit any overpayment not otherwise paid
or credited to our deposit account No. 50-1698.

Respectfully submitted,
THELEN LLP

Dated: 09/23/2008 _____
/Michael J. Ure/
Michael J. Ure
Reg. No. 33,089

THELEN LLP
P.O. Box 640640
San Jose, CA 95164-0640
Tel. (408) 292-5800
Fax. (408) 287-8040